



STIC Search Report

EIC 2100

STIC Database Tracking Number: 226650

TO: Jeff Swearingen
Location: 4C61
Art Unit: 2145
Thursday, June 14, 2007

Case Serial Number: 10/603995

From: Lucy Park
Location: EIC 2100
RND 4B31
Phone: 2-8667

lucy.park@uspto.gov

Search Notes

Dear Examiner Swearingen:

Here are the results of your search on case #10/603995. Please let me know if you have any questions about the search, or if you'd like me to refocus it.

Thanks,
Lucy

Lucy Park
Patent Searcher
EIC 2100
571-272-8667

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; d s

Set	Items	Postings	Description
S1	1893	4116	S VERSION? ?(3N)(INDEPENDENT? OR INDEPENDENC? OR GENERIC?)
S2	229	321	S VINI
S3	9798	43783	S (NETWORK??? OR ELEMENT? ?)(3N)(MANAG??? OR MANAGEMENT)()SYSTEM? ?
S4	0	0	S S1 AND S2 AND S3
S5	0	0	S S2 AND S3
S6	0	0	S S1 AND S2
S7	8	96	S S2 AND NETWORK???
S8	5	58	RD (unique items)
S9	0	0	S S1 AND S3
S10	12	48	S VIRTUAL()NETWORK()INFRASTRUCTURE
S11	8	33	RD (unique items)
S12	4	18	S S11 NOT S8

8/5/1 (Item 1 from file: 2) Links

Fulltext available through: ACM - Association for Computing Machinery USPTO Full Text Retrieval Options
INSPEC

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10190852

Title: In VINI Veritas: realistic and controlled network experimentation

Author Bavier, A.; Feamster, N.; Huang, M.; Peterson, L.; Rexford, J.

Author Affiliation: Princeton Univ., NJ, USA

Journal: Computer Communication Review vol.36, no.4 p. 3-14

Publisher: ACM ,

Publication Date: Oct. 2006 **Country of Publication:** USA

CODEN: CCRED2 **ISSN:** 0146-4833

SICI: 0146-4833(200610)36:4L:3:VVRC;1-#

Material Identity Number: B579-2006-004

U.S. Copyright Clearance Center Code: 1-59593-308-5/06/0009...\$5.00

Language: English **Document Type:** Journal Paper (JP)

Treatment: Experimental (X)

Abstract: This paper describes VINI, a virtual network infrastructure that allows network researchers to evaluate their protocols and services in a realistic environment that also provides a high degree of control over network conditions. VINI allows researchers to deploy and evaluate their ideas with real routing software, traffic loads, and network events. To provide researchers flexibility in designing their experiments, VINI supports simultaneous experiments with arbitrary network topologies on a shared physical infrastructure. This paper tackles the following important design question: What set of concepts and techniques facilitate flexible, realistic, and controlled experimentation (e.g., multiple topologies and the ability to tweak routing algorithms) on a fixed physical infrastructure? We first present VINI's high-level design and the challenges of virtualizing a single network. We then present PL-VINI, an implementation of VINI on PlanetLab, running the "Internet In a slice". Our evaluation of PL-VINI shows that it provides a realistic and controlled environment for evaluating new protocols and services. (28 Refs)

Subfile: B C

Descriptors: Internet; routing protocols; telecommunication control; telecommunication network topology; telecommunication traffic

Identifiers: virtual network infrastructure; VINI Veritas; network control; protocol; traffic load; routing software; arbitrary network topology; PlanetLab; Internet

Class Codes: B6210L (Computer communications); B6150M (Protocols); B6150P (Communication network design, planning and routing); C5620W (Other computer networks); C3370G (Control applications in data transmission); C5640 (Protocols)

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bad date
FY

8/5/3 (Item 1 from file: 266) Links

FEDRIP

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00467837

Identifying No.: 0626950 Agency Code: NSF

NeTS-FIND: Collaborative Research: Concurrent Architectures are Better than One

Principal Investigator: Feamster, Nicholas G

Performing Org.: Georgia Tech Research Corporation - GA Institute of Technology, College Of Computing ,
Atlanta , GA 30332-0420

Project Monitor: Parulkar, Gurudatta M.

Sponsoring Org.: National Science Foundation, CNS , 4201 Wilson Boulevard , Arlington , Virginia 22230

Dates: 20060915 To 20070831 **Fy :** 2006 **Funds:** \$230,340 (200000)

Summary: In today's Internet, a single service provider rarely has purview over an entire end-to-end path; this situation hinders the deployment and adoption of new **network** services. The PI propose to design and prototype a new **network** architecture, Cabo (Concurrent Architectures are Better than One), which resolves this problem by separating infrastructure providers (who own and manage the physical **network** infrastructure) from service providers (who deploy end-to-end services to users). Using Cabo, service providers will reserve **network** resources (i.e., virtual nodes and links) on equipment that may span one or more infrastructure providers. The separation of **network** service providers from infrastructure providers also allows a single service provider to construct end-to-end services; it also allows a service provider to operate multiple virtual **networks**, each of which is tailored to a specific application. For example, one virtual **network** may provide strict security guarantees but may not provide complete reachability to all destinations, while another virtual **network** may guarantee global reachability for applications that do not require strong security guarantees. The outcome of this project will be: (1) the design and implementation of a substrate that service providers can use to deploy new **network** architectures and services, and (2) investigation of example scenarios where Cabo can provide better security, robustness, and end-to-end performance guarantees. Cabo's initial design leverages virtualization, tunneling, and new experimental platforms for **network** protocols and architectures, including the PIs' own Virtual **Network** Infrastructure (**VINI**), which the PIs plan to use to prototype and evaluate their ideas. Successful completion of this project will have significant impact on Future Internet architecture development and deployment.

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S1	67201	179004	S VERSION? ?(3N)(INDEPENDENT? OR INDEPENDENC? OR GENERIC?)
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S2	1634	2433	S VINI
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S3	122246	489932	S (NETWORK??? OR ELEMENT? ?)(3N)(MANAG??? OR MANAGEMENT)()SYSTEM? ?
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S4	0	0	S S1(100N)S2(100N)S3
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S5	0	0	S S2(100N)S3
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S6	0	0	S S1(100N)S2
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S7	91	304	S S2(100N)NETWORK?
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S8	53	182	RD (unique items)
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S9	43	157	S S8 NOT PY=2003:2007
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Set	Items	Postings	Description
S1	258	1315	S VERSION? ?(3N)(INDEPENDENT? OR INDEPENDENC? OR GENERIC?)
S2	79	187	S VINI
S3	8245	79934	S (NETWORK??? OR ELEMENT? ?)(3N)(MANAG??? OR MANAGEMENT)()SYSTEM? ?
S4	0	0	S S1 AND S2 AND S3
S5	0	0	S S2 AND S3
S6	0	0	S S1 AND S2
S7	0	0	S S2 AND IC=G06F
S8	0	0	S S2 AND NETWORK???
S9	4	114	S S1 AND S3

patent
abstracts

9/5/1 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0015053591 *Drawing available*

WPI Acc no: 2005-401615/200541

XRPX Acc No: N2005-325490

Service activation in automated integrated telecommunication and data communication network, involves routing service components in service order received in generic service request format, to domain manager

Patent Assignee: AGILENT TECHNOLOGIES INC (AGIL-N)

Inventor: BIMM M S; CAI Y; CLARK D P; CUSTEAU R D; KLEINBACH S J; RUSSELL R J; TORY D C

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6901440	B1	20050531	US 1999347112	A	19990702	200541	B

Priority Applications (no., kind, date): US 1999347112 A 19990702

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6901440	B1	EN	32	15	

Alerting Abstract US B1

NOVELTY - A service order having one or more service components in generic service request format applicable for multiple vendors or version number, is received. The service components are routed to appropriate domain manager which translates the components into corresponding device specific parameters. The network elements responsive to the device specific parameters, are activated so as to activate network service.

DESCRIPTION - An INDEPENDENT CLAIM is also included for service activation system.

USE - For activating universal services including short messaging service (SMS), **network management system (NMS)**, operation supporting service (OSS), in automated integrated telecommunication and data communication network.

ADVANTAGE - Enables activation of network services during runtime with no downtime and readily extendible to several vendor devices or management protocol without undue maintenance effort. Reduces the complexity in formatting service orders by surface generic representations of services and actions for technology domains, while minimizing overhead demands on **network management system**.

DESCRIPTION OF DRAWINGS - The figure shows block diagram of **network management system (NMS)**.

[File 348] EUROPEAN PATENTS 1978-2007/ 200724

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**File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] PCT FULLTEXT 1979-2007/UB=20070607UT=20070531

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Set	Items	Postings	Description
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S1	807	2570	S VERSION? ?(3N)(INDEPENDENT? OR INDEPENDENC? OR GENERIC?)
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S2	247	526	S VINI
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S3	4984	79918	S (NETWORK??? OR ELEMENT? ?)(3N)(MANAG??? OR MANAGEMENT)()SYSTEM? ?
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S4	0	0	S S1(100N)S2(100N)S3
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S5	0	0	S S2(100N)S3
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S6	0	0	S S1(100N)S2
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S7	18	65	S S2 AND IC=G06F
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S8	12	29	S S7 NOT AD=20020629:20070614/PR
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S9	2	13	S S1(50N)S3
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fulltext
patents

9/3K/2 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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00762381

SOFTWARE TRANSLATION USING METADATA

TRADUCTION DE LOGICIELS A L'AIDE DE METADONNEES

Patent Applicant/Patent Assignee:

- **SYCAMORE NETWORKS INC;** 150 Apollo Drive, Chelmsford, MA 01824-0986
US; US(Residence); US(Nationality)

Legal Representative:

- **SCHURGIN Stanley M(et al)(agent)**
Weingarten, Schurgin, Gagnebin & Hayes LLP, Ten Post Office Square, Boston, MA 02109; US;

	Country	Number	Kind	Date
Patent	WO	200075784	A1	20001214
Application	WO	2000US12049		20000502
Priorities	US	99137355		19990603
	US	2000557329		20000424

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

Publication Language: English
Filing Language: English
Fulltext word count: 13368

Detailed Description:

...requirements.

The disclosed system is described in connection with an illustrative embodiment, which provides a **version independent network management system** that simplifies and facilitates network upgrades. As disclosed herein, using the disclosed system, all versions of software are forward and backward SUBSTITUTE SHEET (RULE 26) compatible. To achieve such **version independence**, **version** information is captured as part of the metadata used by the disclosed system. Additionally, as...

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"version independent" vini

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Results 1 - 2 of 2 for "[version independent](#)" [vini](#). (0.15 seconds)

Tip: Try removing quotes from your search to get more results.

Program ASYM

Most of the respective initializations are performed in subroutines asyminput and vini. In any case please report bugs to volker.typke@uni-ulm.de.

www.uni-ulm.de/~typke/progbe/asym.html - 64k - Supplemental Result -

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Assistant Blog: July 2004

Would **Vini** Reilly ever have imagined that one day a pasty-faced Hollywood actor would be clutching a guitar and pretending to be him? Great. ...

assistantbrighton.blogspot.com/2004_07_01_archive.html - 242k - Supplemental Result -

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Chianti Classico and
italianfood.about.com/b/a/257451.htm [Found on About]
3. [06-06-06 a Big Disappointment, More Da Vini Code Denunciation, God Has a Sense of ...](#)
06-06-06 a Big Disappointment, More Da Vini Code Denunciation, God Has a Sense of Humor, Alternative Religions,
day has come and gone, and no apocalypse, no catastrophes,...
altreligion.about.com/b/a/257216.htm [Found on About]
4. [Verizon Wireless](#)
\$39.99 per month Verizon plan. Free camera phone. Ends soon.
Sponsored by: www.cellularchoices.net/ [Found on Ads by Google]
5. [Viaggio Tra i Grandi Vini di Sicilia](#)
Andrea Zanfi takes a breathtaking look at the wines of Sicily.
italianfood.about.com/library/weekly/blk23.htm [Found on About]
6. [Italian Cuisine August 2006 Archive](#)
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Test your knowledge of Italian cooking!
italianfood.about.com/library/weekly/blk4.htm [Found on About]
9. [Agnellini Pasquali - Sicilian Easter Marzipan Lambs](#)
Agnellini Pasquali: Sicilian Easter Marzipan Lambs. Pino Correnti discusses them at length in "Il Grande Libro della Cucina di Sicilia" (Mursia Editore).
italianfood.about.com/od/italiandesserts/r/blr0732... [Found on About]
10. [Italian Cuisine, - Recipes](#)
An index of Recipes for the Italian Cuisine guide site.
italianfood.about.com/od/italiandesserts/r/index.htm... [Found on About]
11. [Independent - Buy at DealTime.com!](#)
Save time and money every time you shop! DealTime lets you compare products, prices and stores for free. Find them in seconds.
Sponsored by: www.DealTime.com/ [Found on LookSmart]
12. [Catalani](#)
Catalani: While we're on the subject of All Saint's Day, someone recently posted a request for a Sicilian cookie called

forum. Pino Correnti, author of Il Libro d'Oro della Cuc...
italianfood.about.com/od/biscottietc/r/blr0882.htm [Found on About]

13. [Independent - Compare & Save at Shopping.com](#)

Shop here to save money on clothing. Shopping.com is a great place to compare products, prices, and stores. Search deals online in just seconds.

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14. [Cannoli Spicci -- Quick Cannoli](#)

A shorter, somewhat simpler recipe for cannoli

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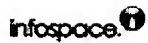
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vini

FIND

this exact phrase:

version independent

any of these words:

and none of these words

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Advanced Web Search[Help](#)**Build a query with...**

all of these words:

vini

FIND

this exact phrase:

version independent

any of these words:

and none of these words

SEARCH: ☒ Worldwide ☐ USA**RESULTS IN:** ☒ All languages ☐ [English, Spanish](#)**Date:**☒ by timeframe: ☐ by date range:
 File type:**Location**☒ by domain: ☐ By URL: **Display:**☐ site collapse (on/off) [What is this?](#) results per page

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S1 17 46 S AU=(JAIN C? OR JAIN, C?)
S2 11364 28558 S AU=(WANG Y? OR WANG, Y?)
S3 14 52 S AU=(CHAUDHARY A? OR CHAUDHARY, A?)
S4 41 108 S AU=(KANNAN R? OR KANNAN, R?)
S5 156 367 S AU=(LUO T? OR LUO, T?)
S6 40 176 S AU=(SUNDARAM M? OR SUNDARAM, M?)
S7 1806 4411 S AU=(ZHU J? OR ZHU, J?)
S8 114 372 S AU=(VENKATESAN R? OR VENKATESAN, R?)
S9 0 0 S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8
S10 58 609 S S1:S8 AND NETWORK? ?(3N)MANAG?
S11 5 280 S S10 AND NETWORK(ELEMENT? ?

inventor
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11/5/1 (Item 1 from file: 350) [Links](#)

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WPI Acc no: 2007-271031/200726

XRPX Acc No: N2007-201432

State model consistency providing method for network elements , involves coalescing attributes from different standards, in order to form internal state model, and displaying coalesced attributes on user interface

Patent Assignee: HAND S J (HAND-I); INFINERA CORP (INFI-N); JORGENSEN A W (JORG-I); LIM H T (LIMH-I); LIOU C C (LIOU-I); MURPHY D P (MURP-I); SUBRAMANIAN S (SUBR-I); SYED S (SYED-I); VENKATESAN R (VENK-I)

Inventor: HAND S J; JORGENSEN A W; LIM H T; LIOU C C; MURPHY D P; SUBRAMANIAN S; SYED S; VENKATESAN R

Patent Family (2 patents, 113 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2007005474	A1	20070111	WO 2006US25212	A	20060627	200726	B
US 20070100887	A1	20070503	US 2005695468	P	20050630	200731	E
			US 2006426515	A	20060626		

Priority Applications (no., kind, date): US 2005695468 P 20050630; US 2006426515 A 20060626

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2007005474	A1	EN	27	7		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20070100887	A1	EN			Related to Provisional	US 2005695468

Alerting Abstract WO A1

NOVELTY - The method involves receiving different interface standards such as *TL-1* , *TMY 814* and *ITU X.731* standards (301-303) having multiple attributes. Service state attributes for each standard are derived from a state selected from a group consisting of an administrative state (303.1), an operational state (303.2) from the *ITU X.731* standard, and qualifiers (301.2) from the *TL-1* standard. The attributes from different standards are coalesced together, in order to form an internal state model. The coalesced attributes are displayed on a user interface.

DESCRIPTION - An **INDEPENDENT CLAIM** is also included for a computer program product embodied on a computer readable medium storing a set of instructions for providing consistency in a state model of attributes relative to multiple standards.

USE - Used for providing consistency in a state model of attributes relative to multiple interface standards such as *TL-1* , *TMY 814* and *ITU X.731* standards, and multiple objects in computer software programs running on **network elements** in telecommunication or data communication **network** system, for state management of the **network elements**.

ADVANTAGE - The coalesced attributes of the objects across different standards, are displayed, thus preventing inconsistencies between attributes of different or similar objects from multiple standards.

11/5/2 (Item 2 from file: 350) [Links](#)

Derwent WPIX

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0016136109 *Drawing available*

WPI Acc no: 2006-667740/200669

XRPX Acc No: N2006-532959

Interfacing method for use in communication network, involves receiving application independent request including generic format data with open ended name value pair format

Patent Assignee: CIENA CORP (CIEN-N)

Inventor: JAIN C; VENKATESAN R

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 7100149	B1	20060829	US 2002133284	A	20020426	200669	B

Priority Applications (no., kind, date): US 2002133284 A 20020426

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 7100149	B1	EN	11	5	

Alerting Abstract US B1

NOVELTY - An application independent request, including generic operations and generic format data used by client applications to transmit application independent request, for service is received at a **network element**. The generic data format is an open ended name value pair format such that the data includes subset of value pairs supported by different service applications. The request is mapped by managed object manager to a registry for identifying service application which process the request and the service application is executed based on the request.

USE - For interfacing clients with **managed** objects of **network element** in communication network.

ADVANTAGE - The scalability and functionality of the network of the **network element** is improved and the complexity is reduced.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the **network element** and generic interface.

11/5/3 (Item 3 from file: 350) [Links](#)

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0015445437 *Drawing available*

WPI Acc no: 2005-795159/200581

Related WPI Acc No: 2004-419050

XRPX Acc No: N2005-658744

Network configuring method e.g. for large-scale optical network, involves activating cross-connects to establish automatically defined connection within network elements, when manually defined connection is invalid

Patent Assignee: FUJITSU LTD (FUIT)

Inventor: GALOU S; LAFONTAINE F; LEVESQUE G; MUNIGANTI V; WANG Y; ZHU K

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050254421	A1	20051117	US 2002300096	A	20021119	200581	B
			US 2005158112	A	20050621		

Priority Applications (no., kind, date): US 2002300096 A 20021119; US 2005158112 A 20050621

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050254421	A1	EN	28	16	Continuation of application	US 2002300096

Alerting Abstract US A1

NOVELTY - The **network element** connection attributes including specific time slot on physical link coupling **network elements** , are defined to manually provide a set of cross-connects within each **network element**. Another set of cross-connects is provided automatically within **network elements**. The automatic cross-connects are activated to establish connection between **network elements**, when manually defined connection is invalid.

USE - For configuring network such as wide area optical network such as synchronous optical network (SONET), synchronous digital hierchial network (SDH).

ADVANTAGE - The invalid connection between **network elements** is avoided reliably. Allows user to manually configure connections among **network elements** within the network.

DESCRIPTION OF DRAWINGS - The figure shows a flowchart illustrating the **network element** connection establishment process.

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S7	25845	26094	S AU=(ZHU J? OR ZHU, J?)
S8	942	942	S AU=(VENKATESAN R? OR VENKATESAN, R?)
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S10	242	1181	S S1:S8 AND NETWORK??? (3N)MANAG?
S11	5	49	S S10 AND NETWORK()ELEMENT? ?
S12	3	37	RD (unique items)

12/5/3 (Item 2 from file: 8) [Links](#)

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Ei Compendex(R)

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11086328 E.I. No: EIP06269966282

Title: NMS-EMS Ethernet management information model and its application

Author: Wang, Ying; Meng, Luo-Ming; Qiu, Xue-Song

Corporate Source: State Key Laboratory of Networking and Switching Technology Beijing University of Posts and Telecommunications, Beijing 100876, China

Source: Beijing Youdian Daxue Xuebao/Journal of Beijing University of Posts and Telecommunications v 29 n SUPPL. May 2006. p 34-38

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Document Type: JA; (Journal Article) **Treatment:** A; (Applications)

Journal Announcement: 0606W5

Abstract: A network and network element combined view information model of Ethernet at interface between network management system (NMS) and element management system (EMS) is defined. The structure layer of Ethernet and the partitioning of Ethernet layer network based on virtual local area network (VLAN) are discussed with defining network view information model. The modeling of bridge functional entities is involved in the network element view information model. This model is applied in Ethernet passive optical networks (EPON) network management. In this application, the association mechanism between network view and network element view information is proposed. Besides, an interaction scenario of bandwidth assignment based on the information model is analyzed. The information model proposed here has been verified by a prototype management system. And the information model has also been accepted as ITU-T Recommendation Q.838.1. 11 Refs.

Descriptors: *Management information systems; Local area networks; Quality of service; Bandwidth; Bridges

Identifiers: Management information model; Virtual local area network (VLAN); Ethernet passive optical networks (EPON); Network element; Network management system (NMS); Element management system (EMS);

Network view information model; Element management layer (EML); Optical network termination (ONL); Optical line terminal (OLT)

Classification Codes:

723.2 (Data Processing); 716.1 (Information & Communication Theory)

723 (Computer Software, Data Handling & Applications); 717 (Electro-Optical Communication); 716 (Electronic Equipment, Radar, Radio & Television)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATION ENGINEERING)

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